ABSTRACT

This invention relates to an electrochemical cell comprising a cathode containing a proton-conducting compound as an electrode active material, an anode containing a proton-conducting compound as an electrode active material and an aqueous electrolytic solution containing a proton source as an electrolyte, wherein the electrolytic solution comprises a polymeric compound having an atom with an unpaired electron in its principal chain as an electron-transfer promoter. This invention can provide an electrochemical cell exhibiting improved capacity, high-speed charge/discharge properties and cycle properties.

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